CLAIMS

What is claimed is:

1	1.	A method of passivating an integrated circuit (IC), the method
2	comprising:	
3		forming an insulating layer on said IC;
4		forming an adhesion layer on a surface of said insulating layer by
5	treating said	surface of said insulating layer with a gas; and,
6		forming a first passivation layer upon said adhesion layer, said first
7	passivation l	layer and said gas including at least one common chemical element.
	2.	The method of claim 1 further comprising forming a second
them that the time to that the time the	passivation l	layer upon said first passivation layer.
	3.	The method of claim 1, wherein said insulating layer includes silicon
Street Print But the Street of	dioxide.	
<u>1</u> 7	4.	The method of claim 1 wherein said gas reacts with said surface of said
2≈	insulating layer.	
1	5.	The method of claim 1, wherein said gas includes nitrous oxide (N20).
1	6.	The method of claim 1, wherein said gas includes one of oxygen and
2	nitrogen (N), and oxygen and ammonia (NH3), and oxygen and argon (Ar), and	
3	ozone (O3) and argon.	

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oxynitride (Si χ 0 γ NZ).

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The method of claim 5, wherein said adhesion layer includes silicon

- 1 8. The method of claim 7, wherein said first passivation layer includes 2 silicon nitride.
- 9. The method of claim 1, wherein said first passivation layer is deposited upon said adhesion layer by way of a process of plasma enhanced chemical vapor deposition (PECVD).
- 1 10. The method of claim 8, wherein said at least one chemical element 2 includes nitrogen (N).
 - 11. The method of claim 2 wherein said second passivation layer includes polyimide.
 - 12. A method of passivating an integrated circuit (IC), the method comprising:

forming an oxide layer on said IC;

forming an adhesion layer on a surface of said oxide layer by treating said surface of said oxide layer with nitrous oxide gas; and

forming a first passivation layer of silicon nitride upon said adhesion layer.

- 13. The method of claim 12 further comprising forming a second passivation layer upon said first passivation layer.
- 1 14. The method of claim 12, wherein said adhesion layer includes silicon 2 oxynitride.
 - 15. The method of claim 12, wherein said first passivation layer of silicon nitride is deposited upon said adhesion layer by way of a process of plasma enhanced chemical vapor deposition (PECVD).

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1	16	The method of claim 13, wherein said second passivation layer	
2	includes polyimide.		
1	17.	An integrated circuit (IC) comprising:	
2		an insulating layer;	
3		an adhesion layer formed over said insulating layer; and,	
4		a first passivation layer formed on said adhesion layer, said first	
5	passivati	on layer and said adhesion layer including at least one common chemical	
6	element.		
1	18	. The integrated circuit of claim 17 further comprising a second	
and group and the first	passivati	on layer formed upon said first passivation layer.	
	19	. The integrated circuit of claim 17 wherein said insulating layer	
2	includes silicon dioxide (Si02).		
1	20	. The integrated circuit of claim 17 wherein said adhesion layer includes	
2 ±	silicon oxynitride.		
	21	. The integrated circuit of claim 17 wherein said first passivation layer	
2	includes silicon nitride (Si3N4).		
1	22	. The integrated circuit of claim 18 wherein said second passivation layer	
2	includes polyimide.		
1	23	. An integrated circuit comprising:	
2		a silicon dioxide insulating layer;	
3		a silicon oxynitride adhesion layer formed over said silicon dioxide	

insulating layer; and,

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- a silicon nitride hard passivation layer formed on said silicon oxynitride adhesion layer.
- 24. The integrated circuit passivation layer of claim 23 further comprising a photodefinable polyimide soft passivation layer formed on said silicon nitride hard passivation layer.
- 25. A method of passivating a trench on a semiconductor substrate, comprising the steps of:
- forming at least one trench;
 - forming an insulating layer on said at least one trench;

forming an adhesion layer on a surface of said insulating layer by treating said surface of said insulating layer with a gas; and,

forming a first passivation layer upon said adhesion layer, said first passivation layer and said gas including at least one common chemical element.

- 26. The method of claim 25, wherein said gas reacts with said surface of said insulating layer.
- 27. The method of claim 25, wherein said gas includes nitrous oxide (N2O).
- 28. A method of passivating spacers, the method comprising the steps of:
- forming at least one spacer;
- forming an insulating layer on said at least one spacer;
- forming an adhesion layer on a surface of said insulating layer by treating said surface of said insulating layer with a gas; and,
- forming a first passivation layer upon said adhesion layer, said first
 passivation layer and said gas including at least one common chemical element.

- 29. The method of claim 28, wherein said gas reacts with said surface of said insulating layer.
- 1 30. The method of claim 28, wherein said gas includes nitrous oxide 2 (N2O).